

THE TECH

Vol. XXVII, No. 75

BOSTON, MASS.. MONDAY, APRIL 27, 1908

PRICE FIVE CENTS

PROF. JACKSON SPEAKS ON FACTORS IN FIXING RATES.

BIG PROBLEM FOR FUTURE.

Will Be Solved By Men With Engineering Training And Education.

Professor Dugald C. Jackson, who recently reported on the condition of the telephone company in Massachusetts, especially in regard to rates, gave from his experience a talk last Thursday evening before the Society of Arts. His subject was "A Consideration of Some of the Factors that Govern of Rates for Public Service Corporations," most interesting because of the speaker's connection as an expert with a number of telephone, and street railway corporations.

In regard to public service corporations the fundamental rules laid down by Prof. Jackson were that the company or corporation had been granted privileges to furnish service, and should be forced by rule to give such service good of its kind, and secondly, the company should be given a fair chance, should be left unhindered by petty restrictions and should be allowed to make a fair profit over and above operating expenses to draw to it the best brains and the best investors.

Prof. Jackson said that the first principle had been clearly recognized, but the second had received little or no attention. In the west the best thinking and broadest minded business men had been driven from public service corporations because of the many petty restrictions, thus leaving the positions open to the adventurous and corrupt, and driving from this class of investment the conservative investors. Strong men are not naturally attracted to such enterprises, and when subjected to all sorts of annoyances such that will prevent profit for effort and investment, they will not enter.

In opening he said that Massachusetts held the banner for advanced work in this line, with commission control or (Continued on page 3.)

SUMMER SCHOOL COURSES.

Little Change Made From Former Years.

The bulletin describing the courses of instruction to be given at the Summer School has been issued and can be secured at the information desk. Very little change has been made from courses given in previous years, the schedule being as follows:

Mathematics—(a) Mathematics (21 or 22). (b) Integral calculus. Mechanics—(a) Applied mechanics. Drawing—(a) Mechanical drawing and descriptive geometry. Mechanic Arts—(a) Woodwork. (b) Forging. (c) Chipping and filing. (d) Machine-tool work. Modern Languages—(a) Elementary French I. (b) Intermediate French II. (c) Elementary German I. (d) Intermediate German II. (e) Elementary Spanish I. Chemistry—(a) Inorganic and analytical chemistry. (b) Quantitative analysis. (c) Organic chemistry. Physics—(a) Mechanics, electricity, and optics. (b) Physical laboratory. (c) Precision of measurements. Civil Engineering—(a) Surveying. (b) Geodetic and hydraulic surveying. Mechanical Engineering—(a) Mechanism and valve gears. (b) Mechanical engineering drawing. Architecture—(a) Shades and shadows. (b) Design I. (c) Design II. Biology—(a) Industrial bacteriology. (b) Sanitary research. (c) The human mechanism.

NOTICE.

BIOLOGICAL SOCIETY.—Business meeting, dinner and illustrated lecture Thursday evening at the Union, beginning at 5.30. Dinner at 6.30. Talk on "Typhoid Fever" by George C. Whipple 1888, I.

FRESHMEN TAKE CROSS COUNTRY RACE HANDILY.

SCORE OF 33 TO 45.

McCreadie Places First Only 35 Seconds Behind Record.

In almost record time W. T. MacCreadie 1911 won individual honors in the freshman-sophomore cross country race Saturday over the four and a quarter mile Harvard course. MacCreadie's time of 24m. 54.2-5s. is only 35 seconds slower than the record for the course made in 1906 by Howland 1908. The freshmen won the run by a score of 33 to 45.

L. O. Mills 1910 led for nearly two miles. MacCreadie drew upon him and the two ran abreast for the next mile, when the freshman lengthened his strides and left the bunch. Mills kept after the leader and finished second, closely followed, however, by Eldred, Niles, and MacKenzie, all freshmen.



W. T. MCCREADIE 1911.

1. W. T. MacCreadie 1911, 24m. 54.2-5s.
2. L. O. Mills 1910, 25m. 13s.
3. C. P. Eldred 1911, 25m. 30s.
4. S. M. Niles 1911, 25m. 40s.
5. J. D. MacKenzie 1911, 26m. 28s.
6. E. Jacobs 1910, 26m. 45s.
7. B. C. Huber 1910, 27m. 3s.
8. W. S. Davis 1910, 27m. 14s.
9. E. W. DeWitt 1911, 27m. 28s.
10. H. I. Pearl 1910, 27m. 31s.
11. F. G. Smith 1911, 27m. 37s.
12. R. A. D. Preston 1910, 28m. 19s.
13. G. H. Magee 1910, 29m. 43s.
14. W. H. Hildebrand 1911, 30m. 17s.
15. G. C. Connor 1910, 30m. 40s.
16. G. C. George 1911, 31m. 20s.
17. H. O. Jenks 1911.
18. H. O. Whitney 1911.

This inter-class race is to be made an annual affair, and the interest this year was especially keen, as the Advisory Council decided to grant numerals to the first six to finish on the winning team. These are W. T. MacCreadie, C. P. Eldred, S. M. Niles, J. D. MacKenzie, E. W. DeWitt, and F. G. Smith.

The alumni who ran on cross country while at the Institute have subscribed for a "Cross Country Alumni Cup" to be placed in the Union on which will be inscribed the numerals of the winning class each year. The fund amounts at present to \$27.50. The list of subscribers includes F. H. Hunter 1902 and A. R. Hunter 1908, two former chase captains; E. H. Lorenz 1904, two mile record holder for three years; V. R. Langhish 1898, founder of the hare and hounds club; P. J. Clapp 1906, M. E. MacGregor 1907, D. M. Pray, A. M. Holcombe 1904, G. D. Marey 1905, C. R. Haynes 1904, G. K. Newbury 1898, B. L. Gimson 1908. It is planned to bring the fund to \$40 or more by undergraduate subscription.

NO REHEARSALS.

The Banjo Club will not rehearse on Tuesday, April 28. All members be on hand for the concert Friday, May 1, in time to play pieces over before going on stage.

R. J. Batchelder 1908 (leader.) Rehearsals will be discontinued until further notice.

TECH RELAY TEAM HAD TO BE CONTENT WITH SECOND.

TERRIFIC RACE TO TAPE.

Wesleyan First by Less Than a Yard. Blackburn as Last Man Runs Fast Quarter.

PHILADELPHIA, April 25. — After surpassing all previous Tech performances the Institute relay team had to be content with second place in the race with Wesleyan and Ohio State in the Penn games today. First place went to Wesleyan after a hard struggle. Wesleyan had been expected to run in the college championship race with Chicago and Pennsylvania, entering the race with Tech at the last moment. The team from the Connecticut college was a star aggregation. Ohio State University, the other entry, was a poor third.

The time for the race was fast, being 3m. 30s. From the start it was evident that the fight was to be between Tech and Wesleyan, Ohio State not being in the running.

At the start the Ohio man took the lead, but Gram passed him at the 200-yard mark, with Bacon of Wesleyan, closely following. Gram drew away toward the end of the relay, finishing eight yards to the good. Time for the relay, 52 2-5s.

Salisbury took up the fight for Tech on the second relay, increasing the lead over Connor of Wesleyan at the 220-yard mark to twelve yards. Salisbury maintained this lead to the end of the relay, doing the quarter in 52 4-5s.

Gimson on the next relay for Tech held the lead up to the 300-yard mark when Faraday of Wesleyan drew up and passed the Institute runner, who was evidently exhausted by his effort in the first of the quarter. Gimson ran his relay in 53 1-5s.

Blackburn started with a ten-yards handicap, chasing the Wesleyan runner Gray. The Tech runner very slowly cut down the lead, making the outcome of the race uncertain at the 300-yard mark. There was a terrific race for the tape, Tech losing by about a yard, being 3-5s. behind Wesleyan. Blackburn, as he did last year, ran the fastest 440 for the team, doing it in 52s flat.

The Tech men started in the race not in the best of condition, all but Salisbury feeling tired. Gram was not feeling at all up to his best. Coach Kanaly was very well satisfied with the outcome, the race showing the metal of the Institute quarter milers. The track was simply rotten, and the weather was worse. Halfway in the program a squall came up, and for half an hour the rain came down in torrents. The team stopped in Philadelphia at the Hotel Walton, going to New York on the midnight train Thursday, spending a good part of Friday in New York city and going over to Philadelphia to attend a dinner of the Technology Club of that city. The team returned Saturday evening.

Walter R. Dray of Yale, who placed the world's pole vault record at 12 ft. 6 1-2 in. here today, is to enter Tech next fall. He has completed three years at Yale and so will be eligible the year after next.

The summary of the Tech race: One mile relay—Won by Wesleyan University, with E. B. Gray, R. W. Bacon, L. G. Connor and H. W. Faraday; Institute of Technology second, with B. L. Gimson, H. W. Blackburn, J. W. Gram and W. C. Salisbury; Ohio State University third, with H. A. Levering, R. A. Rogers, E. M. Millions and C. Sheets. Time 3m. 30s.

SOPHS LOOSE TO THAYER.

Wierd Umpiring Has Deal to do With Outcome.

SOUTH BRAINTREE, April 25.—The Technology sophomore baseball team was defeated this afternoon on French Common by the Thayer Academy team by the score of 9 to 8. French and Waller played the star games for the sophs, while Horne pitched a good game,

CIVIC WORKER TO SPEAK AT CONVOCATION TUESDAY.

C. M. JESUP THE MAN.

Secured Through Effort of Tech Civic Club. Has Written Much on Civics.

Through the efforts of the Civic Club Charles M. Jesup of New York is to speak before a convocation tomorrow. Mr. John Boyle Jr., Secretary of the Intercollegiate Civic League, says of him:

"He is devoting all his time to Civic Work. He was formerly a banker in this city and is a man who has made the success of the Intercollegiate Civic League and the College Men's Political Association an assured fact.

"He is a magnetic speaker and a very interesting talker.

"Mr. Jesup has spoken at Williams, Yale, Syracuse, Princeton, Columbia, Union and other colleges where we have clubs.

"Mr. Jesup was for over twenty-five years actively engaged in business in Wall Street but has now retired from active business and devotes himself exclusively to civic affairs. His text would probably be, 'Responsibilities of Citizenship' or 'Americanism' or 'The College Man's Duty to His Country.'"

CRYPTOGAMS BEAT PROTOZOANS.

In an interesting though not errorless game the Cryptogams beat the Protozoans by the score of 33-22. The line up:

Cryptogams—Prescott p, Kellogg c, Schneider ss, Howe 1, Jenkins lf, Straus cf, Harrington 3, Shaw 2, Haynes rf, Robinson cf, Wells 2, Bigelow rf.

Protozoans—Hoyt c, Tully 1, Winslow p, Palmer ss, MacNutt 3, Phelps rf, Watson lf, Groff 2, Irwin cf, Stone lf.

Runs:—Prescott 5, Schneider 5, Howe 5, Harrington 5, Kellogg 4, Jenkins 4, Wells 3, Straus 1, Haynes 1, Hoyt 4, Palmer 4, MacNutt 3, Phelps 3, Watson 3, Irwin 2, Winslow 2, Tully 1.

striking out eight, giving only two passes. The umpiring by McAuliffe was so weird at times that he was hissed by the home supporters, even on decisions in their favor. The score:

THAYER ACADEMY.

	bh	po	a	e
Crocker 2b	2	3	4	1
Elwell ss, p	2	0	1	1
Leonard 3b, p	2	2	1	0
Richmond cf, lf	0	2	0	0
Carson 1b	1	10	0	0
Simms c	1	8	2	1
Alden 3b, ss	0	2	3	1
Brennan lf, p	1	0	0	0
Wilson rf	0	0	0	0
Totals	9	27	11	4

M. I. T. 1910

	bh	po	a	e
Billings ss	0	1	1	1
Dillon 3b	2	3	1	1
O'Hearn c	2	8	1	2
R. Jones lf	0	0	0	0
French 2b	3	3	0	1
C. Jones cf	1	1	0	0
Waller 1b	3	8	0	0
Horne p	1	0	3	2
Hurley p	0	0	1	0
Harrison rf	1	0	0	0

Totals 13 24 7 7

Innings 1 2 3 4 5 6 7 8 9

Thayer Academy. 3 0 0 2 0 0 1 3 —9
M. I. T. 1910. 0 0 0 3 1 0 0 4 —8

Runs made, by Crocker, Elwell 2, Leonard, Varson, Simms, Alden 2, Brennan, Billings, O'Hearn, R. Jones, French 2, C. Jones, Waller, Horne. Two-base hits, Crocker, Leonard. Stolen bases, Crocker, Simms, Alden, Billings, Dillon, Waller, Horne. Base on balls, off Horne 2, off Brennan 3, off Leonard. Struck out, by Horne 8, by Elwell 6, by Brennan 2. Double play, Alden to Crocker. Hit by pitched ball, Wilson. Umpire, McAuliffe. Time 1h 30m.

THE TECH

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Monday, April 27, 1908.

IN DECREPITUDE.

There are indeed dead things at the Institute but the deadeast of all is the Society of Arts. An admirable institution in its ideals, originally the biggest and most important part of the Institute, the society has in late years been allowed to go into a decrepitude that is disgraceful when its purposes are to be considered.

This society was organized, it seems, for the investigation of the progress made in the industrial arts. The society is supposed to promote scientific research by the exhibition of mechanical and new industrial processes. Also the society founded a journal, the Technology Quarterly, to advance the interests of the industrial arts and of education. All well and good, but how far has this society with these high ideals fulfilled its purposes?

Something like fifteen persons greeted Professor Jackson the other evening when he appeared before the society to give a deeply interesting talk, one of moment to all engineers and Institute students. It was almost an insult to ask as eminent an expert to talk before such a gathering. Other meetings this year, except the one at which Professor Jaggar spoke, have been almost as sparsely attended. Last year conditions were nearly as bad.

The reason for this deadness of interest is lack of advertising, lack of push by those in charge, an uninteresting schedule of speakers, and the room that the meetings are held in. The meetings are kept a dark secret, except to a few, by sending out a small number of cards announcing the meeting in a stereotyped fashion with never a word as to who the speaker is or what he has done. No effort is made to take advantage of the columns of the newspapers or of The Tech, no press agent work being attempted. Newspapers will print a four line notice, but have too much regular business to dig out facts in regard to a speaker of whom no one has ever heard.

The schedule of speakers contains perhaps one or two men that have made a noise in the world as experts, and speak in a fairly popular manner on popular subjects. The other speakers are usually, or at least have been for the last two years, either men speaking for products of their concerns or are dry-as-dust scientists of the lesser sort.

The mere mention of Walker 23 as a meeting place to most Institute students is in itself enough to make most of them chary of spending an hour in the well known bone-breaking seats and weird, peculiar atmosphere. These conditions added to the doubtful value of what the speaker has to say militates against making the meetings of the society popular among the students. And the methods of conducting the meetings have the same dry flavor now as they probably had 645 meetings ago.

Those who remember the flourishing condition and the interesting proceedings of this society when in charge of Professor Wendell, and know the prominent position it held years ago in Boston, can fully appreciate just what sort of a mummy this organization has become. With just the same ideals that the present President of the Institute is striving toward in the school itself, the bringing together of the scientists and the manufacturer, and the bringing in of the practical to leaven the theoretical, this society has fallen to a very small place, has become a joke as a part of the whole Institute.

The journal connected with this society has suffered from this decline. Those in charge of the Technology Quarterly have had, however, enough life to secure for it some very valuable articles. Still, this does not fill the field it should.

The Society of Arts should be made attractive to student, instructor and professor, mechanic, professional man and engineer, it should be one of the strongest and most virile features of the Institute. Under the present management the society does not fulfill its functions, its meetings are neither popular among or attractive to any of the classes mentioned. Someone should revivify this fast-dying institution.

EDWARD IGNATIUS CAHILL 1910.

The sudden death of Edward Ignatius Cahill 1910 after a three weeks' not seemingly dangerous attack of typhoid fever at his home in East Boston Thursday came as a deep shock to his many friends at the Massachusetts Institute of Technology and in East Boston. All who have known him in class and on the basketball team at Tech regret to lose such an earnest and tireless worker.

The funeral was held at 9 o'clock Saturday morning from his late residence 250 Lexington St., with solemn high requiem mass at the Sacred Heart Church, East Boston. Many friends and relatives with a number of Institute men were present at the ceremony. The Tech basketball team sent flowers.

Cahill was a basketball player of more than average ability playing two years on the Institute team as one of the forwards, preferably in the left position. He was a short, strongly built fellow, and a thorough athlete. He came to the Institute from East Boston High School where he starred on the basketball team for several years. His election to the captaincy of the Institute team showed that he was honored by his team mates. He was studying in Course III.

RESOLUTIONS.

Whereas, Almighty God in his infinite wisdom and power has taken from us Edward Ignatius Cahill, a member of the class of 1910, Massachusetts Institute of Technology; be it

Resolved, That in his untimely death his class has lost a most loyal and faithful member; and be it further

Resolved, That the Class of 1910 extend to the bereaved family its sincere and heartfelt sympathy, in this, its hour of earthly sadness.

(Signed)

TOM W. SAUL,
CURTIS C. WEBB,
JOHN J. HIGGINS,
ROBERT S. BREYER,
For the Class of 1910.

WALTER DOANE 1911

Walter Doane 1911, after an illness of two weeks died at his home in East Boston April 25, at 11.45 A. M., of jaundice. Funeral services will be held Monday afternoon at 107 Lexington Street, East Boston.

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PROF. JACKSON SPEAKS.
(Continued from page 1.)

gunized in its best and most advanced
form. However the universal discussion
of rate fixing carried on of late with
little knowledge about the subject led
him to lay down a few laws, especially
in regard to capitalization. While the
interstate and state commissions had
made a deep study of this subject they
had added no new methods, only piling
up undigested statistics.

These problems in public service rates
Prof. Jackson predicted would be solved
by men from engineering schools and with
engineering education, for the very prob-
lems in themselves have to do in great
part with engineering projects, and the
very character of the problems makes
the scientific training necessary before
attempt at solution. The complexity
of the problem in many cases needs just
that sort of training that scientific
schools give, the ability to simplify and
divide the problem into its component
parts, and give true value to these
parts.

That plungers, corruptionists and ad-
venturers were in control of the pub-
lic service corporations was no surprise
when the history of these organizations
is to be considered. The telephone, tel-
egraph, street railway and even the rail-
road and gas works were all young in-
dustries, and all of more or less specu-
lative character. This sort of enterprise
attracts the adventurer. In the recent
enormous development it is not surpris-
ing that corruptionists but the people
must recognize that most of the officials
are honest said Prof. Jackson.

In discussing capital for such corpora-
tions, Prof. Jackson said that it was
quite a shock to many individuals to
find that the capital was represented by
more than the cars, tracks, and power
house, as in the case of a street railway.
Beside the tangible property, there was
a large expenditure before operation
that could legitimately be charged to
the capital account. In the first con-
sideration these expenses were seldom

thought of by the ordinary person, but
they really represented a good part of
the capital that many believe to be
"water."

As an instance Prof. Jackson cited
the great criticism that the N. E. Tel. &
Tel. Co. had undergone for its extensive
placing of its wires in underground con-
duits. Prof. Jackson regarded this as
very good insurance inasmuch as the tel-
ephone service through the burned dis-
trict in Chelsea had continued because
of so placing the wires.

The legitimate expenditures that
Prof. Jackson said could be charged to
capital stock were expenses for lawyers
in organization, bringing employees up
to the proper standard of efficiency,
interest for investor until returns come
in, commission for selling stock, taxes
and repairs on machinery while prepar-
ing property for operation. There were
two ways to get rid of these expendi-
tures, one, the right, to charge to the
capital account, the other, wrong, to
charge to a floating debt and take it
out of the early customers.

After the address Professor Allen of
the civil engineering department at the
Institute gave a talk on railroads.
The attendance was fifteen.

CHEMISTS DINE TOMORROW.

Six-thirty tomorrow night will see the
Chemical Society gathered at the Un-
ion for their annual dinner and elec-
tion of officers. J. F. Norton is to be
the toast master. The committee has
arranged an interesting program and a
menu that is something new in the his-
tory of the Union. The speakers are
Professors Talbot, Gill, Thorpe, Fay,
and Walker, and Mr. C. Field.

As this is the last meeting of the
year and the time of the election of
officers every member is expected to be
present. All who intend to go are
asked to make the fact known to the
executive committee by tomorrow morn-
ing. Tickets admitting to both dinner
and entertainment are 75 cents.

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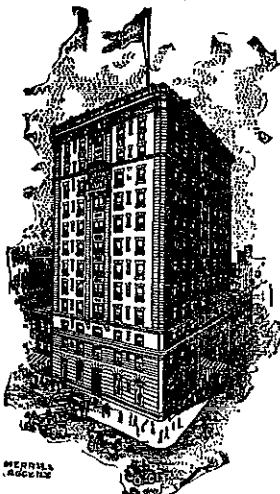
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CALENDAR.

Monday, April 27.

- 1.00 P. M. Board of Editors of The Tech Meets at the Technology Club.
- 3.00 P. M. Track Team Practices at the Field.
- 3.00 P. M. Civil Engineering Society Meets in 11 Eng. B.
- 4.15 P. M. Mandolin Club Rehearses in 31 Rogers.
- 4.15 P. M. Baseball, 1910 vs. Brookline High at the field.
- Tuesday, April 28.
- 3.00 P. M. Track Team Practices at the Field.
- 4.15 P. M. Banjo Club Rehearses in 33 Rogers.
- 6.30 P. M. Chemical Society Dines at the Union.
- 6.30 P. M. Walker Club Dines at the Technology Club.
- 8.00 P. M. Catholic Club Meets in 16 Rogers.
- Wednesday, April 29.
- 4.15 P. M. Baseball, 1910 vs. Roxbury High, at the Field.

FACULTY NOTICE.

SENIORS.—By applying at 16 Rogers seniors may obtain any papers written by them and now in charge of the English department.

NOTICES.

THE TECH.—The board of editors of The Tech will meet today at the Technology Club at 1 o'clock.

MEDALS for the spring meet are now at the Cage. All who made first or second place in the meet may obtain them now.

CIVIL ENGINEERING.—The Civil Engineering Society will hold its annual meeting for election of officers this afternoon in 11 Eng. B at 4.15 P. M.

EVOLUTION.—On Tuesday evening, April 28, in 16 Rogers, Professor Thomas Dwight of the Harvard Medical School will address the Catholic Club on the subject of "Evolution."

WALKER CLUB.—Tomorrow night the Walker Club will meet at 6.30 for dinner at the Technology Club. After dinner Prof. J. O. Summer will talk to the club on some of his experiences in Europe.

CLASSIFIED ADS.

Advertisements of this kind under different classifications are inserted at the rate of five cents a line, averaging six words to a line, payable in advance.

LOST.—Wallet containing papers and commutation ticket. Finder please notify Ralph Beales 1910.

FOR SALE.—A dress suit in good condition at half cost, for a man 6 feet, weighing 150 lbs. Address A. M. C. Cage.

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FOR SALE.—Technique 1909 has a few subscriptions to the Engineering Record, the Street Railway Journal, and the Electrical World, which will be sold at \$2.50 as long as they last. Regular price \$3.00.

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